

Microassay on a Card



DESCRIPTION:

The Microassay on a Card (MAC) is a portable, hand-held, noninstrumental immunoassay that can test for the presence of a wide variety of substances in the environment. To use the MAC, a drop of test solution is placed on one side of the card and within a few minutes a color is developed on the other side in proportion to the amount of substance in the test solution. No reagents or timing is required. The MAC may be configured with multiple wells to provide simultaneous testing for more than one species.

ADVANTAGES/FEATURES:

- Rapid and sensitive response in less than 5 minutes with nanogram/ml sensitivity
- Clearly visible results; no read-out instrumentation required
- Easy to use in the field—simply place a drop of test solution on the card
- Long shelf-life prior to use; results remain permanent for up to one year
- No toxic or corrosive reagents
- Licensable under US patent # 5,369,007

APPLICATIONS:

- On-the-spot screening for alcohol or drugs of abuse in urine or saliva
- Identification of seized materials
- Environmental surveying

CONTACT:

Licensing information:

Jane F. Kuhl • Head, Technology Transfer Office • (202) 767-3083 • kuhl@utopia.nrl.navy.mil

Technical information:

Dr. David A. Kidwell • Chemistry Division • (202) 767-3575 • kidwell@ccf.nrl.navy.mil